

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4433	(execut\$5 run\$5 implement\$3 submit\$5) SAME (application\$2 program\$3 code\$2) SAME (DBMS "database management system")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 09:32
L2	40	L1 SAME ("visual Basic" VB)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/05 09:32
L3	37	L2 AND (@RLAD<"20040210" @AD<"20040210")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/05 09:32
L4	0	L3 AND (immutable mutable)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/05 09:32
S1	1	10/776370	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 08:07
S4	29	("5900870" "6047291" "6108004" "6112024" "6199195" "6338056" "6370541" "6519597" "6556983" "6578046" "6772178" "6671757" "6757696" "6694336" "6738789" "6477564").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 09:26
S5	16	("5900870" "6047291" "6108004" "6112024" "6199195" "6338056" "6370541" "6519597" "6556983" "6578046" "6772178" "6671757" "6757696" "6694336" "6738789" "6477564").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/21 09:26
S6	1	S5 AND NET	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 09:48

## EAST Search History

S7	6	"20020091702" "20020198891" "20020152422" "20020143521" "20030158839"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/21 09:49
S8	5	(execut\$5 run\$5 implement\$3 submit\$5) NEAR5 (application\$2 program\$3 code\$2) SAME (DBMS "database management service") SAME net	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/04 18:41
S9	1152	(execut\$5 run\$5 implement\$3 submit\$5) NEAR5 (application\$2 program\$3 code\$2) SAME (DBMS "database management service")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 10:50
S10	11	"20020091702" "20020198891" "20020152422" "20020143521" "20030158839"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/04 16:19
S11	11	(execut\$5 run\$5 implement\$3 submit\$5) NEAR5 (application\$2 program\$3 code\$2) SAME (DBMS "database management system") SAME net	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/04 16:58
S12	5	(execut\$5 run\$5 implement\$3 submit\$5) NEAR5 (application\$2 program\$3 code\$2) SAME (DBMS "database management service") SAME net	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/04 16:34
S13	6	S11 NOT S12	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 16:35
S15	4430	(execut\$5 run\$5 implement\$3 submit\$5) SAME (application\$2 program\$3 code\$2) SAME (DBMS "database management system")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/04 16:59
S16	367	S15 AND ("visual Basic" VB)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 17:05

## EAST Search History

S17	40	S15 SAME ("visual Basic" VB)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 17:05
S18	37	S17 AND (@RLAD<"20040210" @AD<"20040210")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 21:22
S22	365	database NEAR8 (ADO "activex data object")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 21:21
S23	2	S18 AND (ADO "activex data object")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/04 21:56
S24	14	S18 AND cursor	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/09/05 09:31

Terms used execut NET application code database

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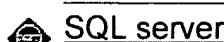
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Results 1 - 20 of 200

Result page: **1** [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale

**1 Industrial sessions: database internals - II: Hosting the .NET Runtime in Microsoft SQL server**

Alazel Acheson, Mason Bendixen, José A. Blakeley, Peter Carlin, Ebru Ersan, Jun Fang, Xiaowei Jiang, Christian Kleinerman, Balaji Rathakrishnan, Gideon Schaller, Beysim Sezgin, Ramachandran Venkatesh, Honggang Zhang

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: [pdf\(249.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The integration of the .NET Common Language Runtime (CLR) inside the SQL Server DBMS enables database programmers to write business logic in the form of functions, stored procedures, triggers, data types, and aggregates using modern programming languages such as C#, Visual Basic, C++, COBOL, and J++. This paper presents three main aspects of this work. First, it describes the architecture of the integration of the CLR inside the SQL Server database process to provide a safe, scalable, secure, an ...

**2 Memory compression for embedded systems: Comparing the size of .NET applications with native code**

Roberto Costa, Erven Rohou

September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**

Publisher: ACM Press

Full text available: [pdf\(120.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Byte-code based languages are slowly becoming adopted in embedded domains because of improved security and portability. Another potential reason for their adoption is the reputation for smaller code size than native. This is critical in contexts in which a small memory footprint is crucial to reduce production costs. This paper compares the code size of applications compiled for .NET framework with the same natively compiled for various processors. The paper shows that the assumption of an impre ...

**Keywords:** .NET, bytecode, code size, managed environments

**3 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not

provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

#### 4 Recovery guarantees for Internet applications

 Roger Barga, David Lomet, German Shegalov, Gerhard Weikum  
August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

**Keywords:** Exactly-once execution, application recovery, communication protocols, interaction contracts

#### 5 Call graph prefetching for database applications

 Murali Annavaram, Jignesh M. Patel, Edward S. Davidson  
November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(701.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the continuing technological trend of ever cheaper and larger memory, most data sets in database servers will soon be able to reside in main memory. In this configuration, the performance bottleneck is likely to be the gap between the processing speed of the CPU and the memory access latency. Previous work has shown that database applications have large instruction and data footprints and hence do not use processor caches effectively. In this paper, we propose Call Graph Prefetching (CGP), ...

**Keywords:** Instruction cache prefetching, call graph, database

#### 6 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi  
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  [pdf\(165.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

**Keywords:** Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

#### 7 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 8 The convergence of AOP and active databases: towards reactive middleware

Reactive behavior is rapidly becoming a key feature of modern software systems in such diverse areas as ubiquitous computing, autonomic systems, and event-based supply chain management. In this paper we analyze the convergence of techniques from aspect oriented programming, active databases and asynchronous notification systems to form reactive middleware. We identify the common core of abstractions and explain both commonalities and differences to start a dialogue across community boundaries. W ...

**9 The index suggestion problem for object database applications**

 Eric Hughes, Marianne Winslett

December 1995 **Proceedings of the fourth international conference on Information  
and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(943.03 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



**10 Active database systems**

 Norman W. Paton, Oscar Diaz

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional database ...

**Keywords:** active databases, events, object-oriented databases, relational databases

**11 Designing distributed applications with mobile code paradigms**

 Antonio Carzaniga, Gian Pietro Picco, Giovanni Vigna

May 1997 **Proceedings of the 19th international conference on Software engineering**

Publisher: ACM Press

Full text available:  [pdf\(1.86 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** design paradigms, distributed applications, mobile code

**12 MOCHA: a self-extensible database middleware system for distributed data sources**

 Manuel Rodríguez-Martínez, Nick Roussopoulos

May 2000 **ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(278.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system should be deployed by the middleware system itself. This is realized by shipping Java code implementing either advanced data types or tailored query operators to remote data sources and have it executed remotely. Optimized query plans push the eva ...

13 Database technology for novel applications: Declarative networking: language, execution and optimization

Boon Thau Loo, Tyson Condie, Minos Garofalakis, David E. Gay, Joseph M. Hellerstein, Petros Maniatis, Raghu Ramakrishnan, Timothy Roscoe, Ion Stoica  
June 2006 **Proceedings of the 2006 ACM SIGMOD International conference on Management of data SIGMOD '06**

**Publisher:** ACM Press

Full text available: [pdf\(378.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The networking and distributed systems communities have recently explored a variety of new network architectures, both for application-level overlay networks, and as prototypes for a next-generation Internet architecture. In this context, we have investigated declarative networking: the use of a distributed recursive query engine as a powerful vehicle for accelerating innovation in network architectures [23, 24, 33]. Declarative networking represents a significant new application area for database ...

**Keywords:** declarative networks, recursive queries

14 Components: A component-based application framework for manufacturing execution systems in C# and .NET

Reinhard Füricht, Herbert Prähofer, Thomas Hofinger, Josef Altmann  
February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design and realization of a component-based application framework to develop Manufacturing Execution Systems (MES). Manufacturing Execution Systems (MES) are a recently defined category of industrial software for the plant floor/manufacturing environment. The overall goal has been to enable the development of MES software systems by composition and extensions of prefabricated building blocks. The framework-based development of MES applications guarantees significant redu ...

**Keywords:** .NET framework, C# language, application frameworks, component-based software development, manufacturing execution systems, workflow modelling

15 Business process modeling/reengineering: Process improvement: simulations on .Net using Highpoint's HighMAST™ simulation toolkit

Peter C. Bosch  
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

**Publisher:** Winter Simulation Conference

Full text available: [pdf\(434.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the philosophy, architectures and key features of a new .Net-based simulation object model and toolkit called HighMAST™ (Highpoint Modeling and Simulation Toolkit). HighMAST™ is a set of class libraries built on top of Microsoft's .Net platform. It was built to take advantage of the object-oriented flavor and extensive integration plumbing ingrained in the .Net framework. It supports "active entity", "block-based", "workflow-oriented" and several other types o ...

16 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide

tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

17 Generic fuzzy reasoning nets as a basis for reverse engineering relational database applications 

Jens H. Jahnke, Wilhelm Schäfer, Albert Zündorf

November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5**, Volume 22 Issue 6

Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available:  [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

18 Data integrity: Web application security assessment by fault injection and behavior monitoring 

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(4.53 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

**Keywords:** black-box testing, complete crawling, fault injection, security assessment, web application testing

19 Migrating E-commerce database applications to an enterprise Java environment 

Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(572.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

**Keywords:** E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabean, migration, relational-object mapping

20 Security and privacy: Securing web application code by static analysis and runtime protection 

Yao-Wen Huang, Fang Yu, Christian Hang, Chung-Hung Tsai, Der-Tsai Lee, Sy-Yen Kuo

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(2.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Security remains a major roadblock to universal acceptance of the Web for many kinds of transactions, especially since the recent sharp increase in remotely exploitable

vulnerabilities have been attributed to Web application bugs. Many verification tools are discovering previously unknown vulnerabilities in legacy C programs, raising hopes that the same success can be achieved with Web applications. In this paper, we describe a sound and holistic approach to ensuring Web application security. Vi ...

**Keywords:** information flow, noninterference, program security, security vulnerabilities, type systems, verification, web application security

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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